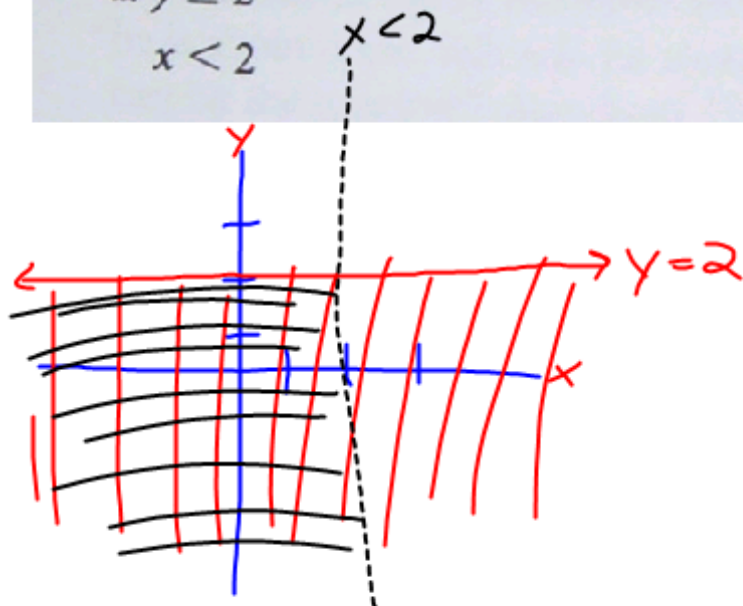


4. Sketch a graph showing the solution to each system.

a. $y \leq 2$

$x < 2$

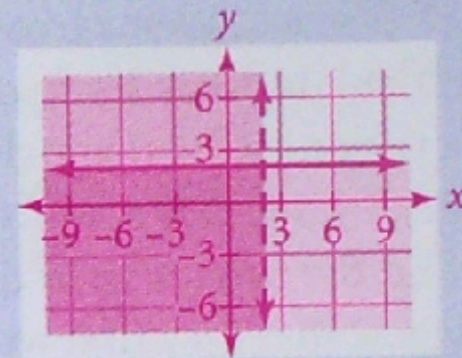


b. $x + y \leq 4$ $y \leq 4 - x$
 $x - y \leq 4$

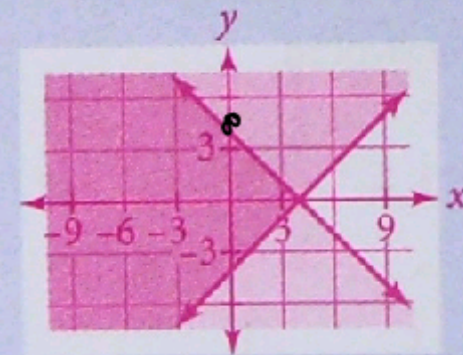
$$\begin{array}{r} -y \leq 4 - x \\ \hline -1 \quad -1 \end{array}$$

$$y \geq -4 + x$$

4a.

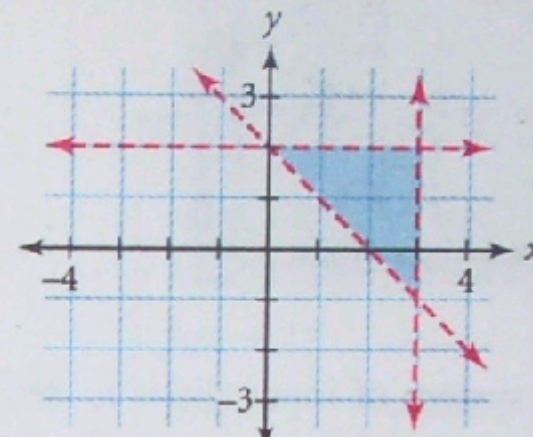


4b.



5. Write a system of inequalities for the solution shown on the graph.

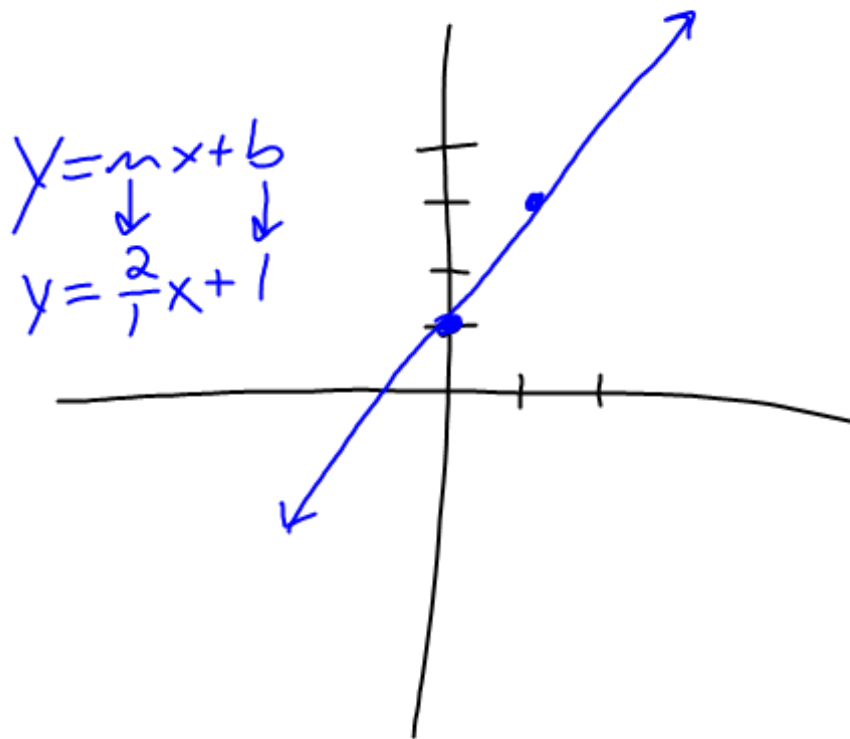
$$\begin{cases} y > 2 - x \\ y < 2 \\ x < 3 \end{cases}$$



Reason and Apply

Ch. 6 review, p. 362

#1-8

① Graphing linear Eq.

$$y = mx + b$$

\downarrow Slope $\frac{\text{rise}}{\text{run}}$

\downarrow y-int where it hits y-axis

② Solve inequality in one variable

$$3x + 7 < 17$$
$$\quad \quad -7 \quad \quad -7$$

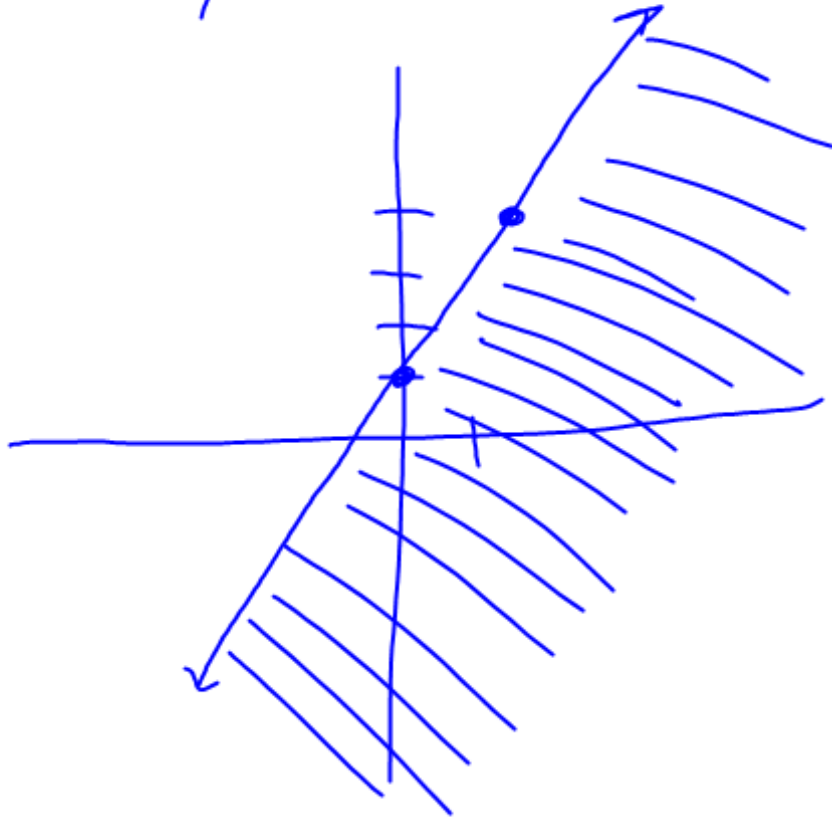
$$\frac{3x}{3} < \frac{10}{3}$$

$$x < 3.\overline{33}$$



③ Graph inequalities in 2-variables

$$y \leq 3x + 1$$



④ Solve for y

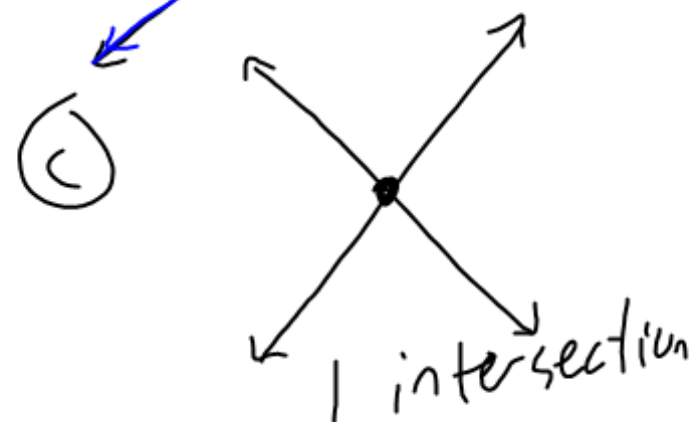
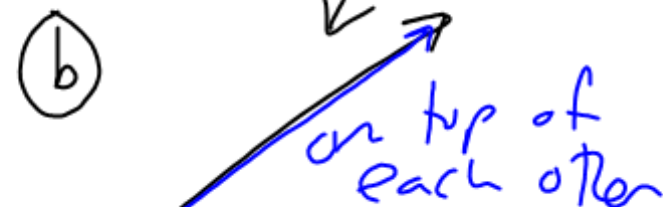
$$3x + 2y = 8$$

$$\begin{array}{r} -3x \qquad \qquad -3x \\ \hline \end{array}$$

$$\frac{2y}{2} = \frac{8-3x}{2}$$

$$y = 4 - \frac{3}{2}x$$

Problem
#5 p.362



HW

#1-8

in section review p. 362